

DHS

Supervisor's and Editor's Manual

For Use with Model "A" and "B" Questionnaires

MEASURE *DHS*+

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MEASURE *DHS*+ Basic Documentation
Number 5

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MEASURE *DHS+* is a five-year project to assist institutions in collecting and analyzing data needed to plan, monitor, and evaluate population, health, and nutrition programs. MEASURE *DHS+* is funded by the U.S. Agency for International Development (USAID). The project is implemented by ORC Macro in Calverton, Maryland, in partnership with the Population Council and the East-West Center.

The main objectives of the MEASURE *DHS+* program are 1) to provide improved information through appropriate data collection, analysis, and evaluation; 2) to improve coordination and partnerships in data collection at the international and country levels; 3) to increase host-country institutionalization of data collection capacity; 4) to improve data collection and analysis tools and methodologies; and 5) to improve the dissemination and utilization of data.

For information about the Demographic and Health Surveys (DHS) program, write to DHS, ORC Macro, 11785 Beltsville Drive, Suite 300, Calverton, MD 20705, U.S.A. (Telephone: 301-572-0200; fax: 301-572-0999; e-mail: reports@macroint.com).

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NOTE TO SURVEY ORGANIZERS: HOW TO USE THIS MANUAL

This manual is designed to explain to field supervisors and field editors how to do their jobs. The instructions for both positions have been combined into one manual because supervisors and field editors are expected to share many activities, e.g., editing questionnaires and tracking interviewers' performance.

Like other DHS manuals, this is a “model” manual that reflects the standard DHS protocol for how to organize and implement the survey. Any changes from the standard protocol will need to be reflected in modifications to this manual. Similarly, this manual is based on the DHS Model “A” and “B” Questionnaires (February 2002). Country-specific changes to the Model Questionnaires may necessitate changes in this manual, so it is important for survey organizers to carefully review the manual prior to using it. To facilitate the task of customizing this manual, the text in certain places has been put in brackets to denote that it is likely to require modification. This manual is available in electronic format from DHS (see contact information on the inside of the front cover).

The most responsible and mature field staff should be appointed to the positions of field supervisor and field editor. Supervisors can be either male or female. It is usually desirable that field editors be women, since they will be observing interviews with female respondents about personal topics having to do with family building and child care. The first opportunity for the training of supervisors and field editors occurs with the pretest of the questionnaire. If at all possible, staff who will be supervisors and field editors during the main survey should participate in the pretest. They should attend all pretest training sessions, and female supervisors and field editors should get experience as interviewers during the pretest. This will provide a thorough knowledge of and experience with the questionnaire even before the training of field staff for the main survey.

In cases in which supervisors and field editors have been designated prior to the interviewer training, it is important that they participate in the interviewer training for the main survey. Active involvement of supervisors and field editors in interviewer training is necessary for an understanding of the role of the interviewer and the problems teams may encounter during fieldwork. Supervisors and field editors should participate with interviewer trainees in “role playing” interviews and supervise the practice interviewing in the field prior to the start of fieldwork. The latter activity gives supervisors, editors, and interviewers experience in working together as a team (see *Training Guidelines for DHS Surveys*).

In other cases, the final selection of supervisors and field editors will be made after completion of interviewer training. In either case, after interviewer training and prior to the beginning of fieldwork for the main survey, two to three days of additional training should be provided on the specific duties of supervisors and field editors. This is to ensure that all teams will be following a uniform set of procedures. The additional training is particularly important for individuals who did not participate in the pretest but were selected to be supervisors or field editors at the conclusion of interviewer training. It is at this additional training that this manual will be discussed in detail.

ACKNOWLEDGMENTS

The current revision of the Supervisor's and Editor's Manual is the result of a coordinated effort by DHS staff. Anne Cross took the lead in preparing the manual. Sri Poedjastoeti and Fred Arnold were instrumental in reviewing and making revisions. Kaye Mitchell assisted with the production of the manual.

I. INTRODUCTION TO THE DHS SURVEY

The [Country]¹ Demographic and Health Survey (DHS) is a national sample survey designed to provide information on population, family planning, maternal and child health, child survival, AIDS and sexually transmitted diseases, reproductive health, and nutrition. The [Country] DHS will involve interviewing a randomly selected group of women who are between 15 and 49 years of age.² These women will be asked questions about their background, the children they have given birth to, their knowledge and use of family planning methods, the health of their children, reproductive health, and other information that will be helpful to policymakers and administrators in health and family planning.

Field supervisors and field editors for the [Country] DHS have an important position. They are the primary links between the director of field operations and the interviewers. As such, they are responsible for ensuring both the quality and progress of fieldwork.

This manual has been prepared to provide the information needed by field supervisors and field editors to carry out their duties. Candidates for the positions of field supervisor and field editor for the survey should study this manual carefully during their training. They should also study the Interviewer's Manual since it is necessary for them to thoroughly understand the questionnaire and the procedures for completing it. Individuals selected to serve as supervisors and field editors should continue to refer to these manuals throughout the fieldwork period.

A. SURVEY OBJECTIVES

The DHS is part of a worldwide survey program. The international MEASURE *DHS*+ program is designed to—

- ▶ Collect information on population, health, and nutrition
- ▶ Measure differences across the country in fertility and family planning use
- ▶ Assist countries in conducting surveys periodically to monitor changes in population, health, and nutrition
- ▶ Provide an international database that can be used by researchers investigating topics related to population, health, and nutrition.

As part of the international DHS program, surveys are being carried out in countries in Africa, South America, Central America, the Caribbean, Asia, Europe, and the Near East.

Data from the survey will be used by policymakers to evaluate the demographic and health status of the country's population. For example, information on the immunization coverage among young children may be used to assess the success of the government's vaccination campaign and might point to areas of the

¹Text in [] is to be modified on a country-specific basis. This manual was written assuming fieldwork will be conducted in 2000; appropriate changes will have to be made when fieldwork is to be conducted at a later date.

²In countries using a male questionnaire or restricting interviews to ever-married women, this should be revised accordingly.

country that should be targeted for special programs in order to improve coverage in the future. Data on the types of contraceptive methods used by couples may be utilized to determine the numbers of supplies that need to be ordered in future years. Because the survey covers many interrelated topics, it will be possible to investigate questions like whether children who are too closely spaced together are more likely to die in early childhood and which variables related to childhood malnutrition are important. The information collected in this survey will be used for many years.

B. SURVEY ORGANIZATION

[Description of survey organization, naming the project director, deputy director, and fieldwork coordinators. Should be similar to what is presented in the Interviewer's Manual but with specific clarification of how supervisors and field editors relate to senior survey staff and lines of authority.]

Each field supervisor will be responsible for one team consisting of one field editor, [four] interviewers, one health technician, [and one driver]. He/she will be assisted by the field editor, who will be in charge in the absence of the supervisor. Field supervisors may be either male or female; however, field editors should be female since they will be observing interviews with female respondents about personal topics. As the workload of the field supervisor and the field editor will vary from day to day, it is expected that they will assist each other in completing their respective duties.

C. TRAINING

It is important that field supervisors and field editors attend the interviewer training for the main survey. Supervisors and field editors should not skip any of the training sessions, even if they participated in the pretest. Active involvement of supervisors and field editors in interviewer training is necessary for an understanding of the role of the interviewer and the problems teams may encounter during fieldwork. Supervisors and field editors should participate with interviewer trainees in "role playing" interviews and supervise the practice interviewing in the field prior to the start of fieldwork. The practice interviewing gives supervisors, field editors, and interviewers experience in working together as a team.

After interviewer training, two to three days of additional training will be provided on the specific duties of supervisors and field editors. This is to ensure that all teams will be following a uniform set of procedures and to teach supervisors and editors how to check the fieldwork and edit completed questionnaires.

D. RESPONSIBILITIES OF THE FIELD SUPERVISOR

The field supervisor is the senior member of the field team. He/she is responsible for the well-being and safety of team members, as well as the completion of the assigned workload and the maintenance of data quality. The supervisor receives his/her assignments from and reports to the [field coordinator/project director]. The specific responsibilities of the supervisor are to make the necessary preparations for the fieldwork, to organize and direct the fieldwork, and to conduct periodic spotcheck reinterviews.

To prepare for fieldwork, the supervisor must—

- 1) Obtain sample household lists and/or maps for each area in which his/her team will be working.
- 2) Become familiar with the area where the team will be working and determine the best arrangements for travel and accommodations.
- 3) Contact local authorities to inform them about the survey and gain their support and cooperation.

- 4) Obtain all monetary advances, supplies, and equipment necessary for the team to complete its assigned interviews. Careful preparation by the supervisor is important for facilitating the work of the team in the field, for maintaining interviewer morale, and for ensuring contact with the central office throughout the fieldwork.

During the fieldwork, the supervisor will—

- 1) Assign work to interviewers, taking into account the linguistic competence of individual interviewers and ensuring that there is an equitable distribution of the workload.
- 2) Maintain fieldwork control sheets and make sure that assignments are carried out.
- 3) Regularly send completed questionnaires and progress reports to the central office and keep headquarters informed of the team's location.
- 4) Communicate any problems to the [field coordinator/project director].
- 5) [Take charge of the team vehicle, ensuring that it is kept in good repair and that it is used only for project work.]
- 6) Arrange for lodging and food for the team.
- 7) Make an effort to develop a positive team spirit. A congenial work atmosphere, along with careful planning of field activities, contributes to the overall quality of the survey.

E. RESPONSIBILITIES OF THE FIELD EDITOR

The specific duties of the field editor are to monitor interviewer performance with the aim of improving and maintaining the quality of the data collected. Close supervision of interviewers and editing of completed interviews are essential to ensure that accurate and complete data are collected. Because the collection of high-quality data is crucial to the success of the survey, it is important that field editors are mature, responsible women who execute their duties with care and precision. This is especially important during the initial phases of fieldwork, when it is possible to eliminate interviewer error patterns before they become habits.

Monitoring interviewer performance requires that the field editor—

- 1) Observe at least one interview every day.
- 2) Edit all completed questionnaires in the field; editing must be completed prior to leaving the sample area. To the extent possible, the supervisor should assist the editor in performing this task so that all interviews are edited while still in the sample area.
- 3) Conduct regular review sessions with each interviewer and advise them of any problems found in their questionnaires.
- 4) Put completed questionnaires from a sample area in order and pack them up to be sent to the central office.

II. PREPARING FOR FIELDWORK

A. COLLECTING MATERIALS FOR FIELDWORK

Before leaving for the field, the supervisor is responsible for collecting adequate supplies of the materials the team will need in the field. These items are listed below:

Fieldwork documents:

- Supervisor's and Editor's Manual
- Interviewer's Manual
- Maps and household listing forms for all clusters in the assigned area
- Letters of introduction to local authorities
- Household and Women's [and Men's] Questionnaires [in the appropriate languages]
- Supervisor's/Editor's Assignment Sheets
- Interviewer's Assignment Sheets
- Interviewer Progress Sheets

Supplies:

- Blue pens for interviewers
- Red pens for the field editor and supervisor
- Clipboards, briefcases, and backpacks
- Paper clips, scissors, string, staplers and staples, cello tape, etc.
- Envelopes to store completed questionnaires
- First aid kit

Funds for Field Expenses:

- Sufficient funds to cover expenses for the team
- [Funds for fuel and minor vehicle repairs]
- [Funds for guides]
- [Funds for communicating with the central office]
- [Advances for per diem allowances for the team].

[Include a brief description of procedures for making periodic payments to the teams, including funds for fuel and vehicle repairs, guides, illnesses or injuries to team members, and communicating with the central office. Explain how and when advances for per diem allowances and salary payments will be made.]

B. ARRANGING TRANSPORTATION AND ACCOMMODATIONS

It is the supervisor's responsibility to make all necessary travel arrangements for his or her team, whenever possible, in consultation with the central office. [Vehicles are generally provided to transport the team to assigned work areas; however, in some cases, it may be necessary to arrange for other means of transportation. The supervisor is responsible for the maintenance and security of the team vehicle. The vehicle should be used exclusively for survey-related travel, and when not in use, it should be kept in a safe place. The driver of the vehicle takes instructions from the supervisor.]

In addition to arranging transportation, the supervisor is in charge of arranging for food and lodging for the team. If they wish, interviewers may make their own arrangements, as long as these do not interfere with fieldwork activities or break the team spirit. Lodging should be reasonably comfortable, located as close as possible to the interview area, and provide secure space to store survey materials. Since travel to rural clusters is often long and difficult, the supervisor may have to arrange for the team to stay in a central place.

C. CONTACTING LOCAL AUTHORITIES

It is the supervisor's responsibility to contact the [regional, provincial, district, and village] officials before starting work in an area. Letters of introduction will be provided, but tact and sensitivity in explaining the purpose of the survey will help win the cooperation needed to carry out the interviews.

D. CONTACTING THE CENTRAL OFFICE

Each supervisor should arrange for a system to maintain regular contact with the central office staff before leaving for the field. Regular contact is needed for supervision of the team by central office staff, payment of team members, and the return of completed questionnaires for timely data processing.

E. USING MAPS TO LOCATE CLUSTERS

[Section to be adapted to reflect specific characteristics of sample design.]

A major responsibility of the field supervisor is to assist interviewers in locating households in the sample. The [director of field operations/project director] will provide the supervisor with maps and a copy of the household listing for each of the clusters in which his/her team will be working. These documents enable the team to identify the cluster boundaries and to locate the households selected for the sample. The representativeness of the whole survey depends on finding and visiting every sampled household.

Regional or provincial maps help the supervisor to determine the location of sample areas and the distance between them, while general cluster maps and sketch maps of the sampled clusters will help identify how to reach selected households or dwellings.

Each team will be given general cluster maps, household listing forms, and sketch maps and/or written descriptions of the boundaries of selected areas. A cluster is the smallest working unit in any census or survey operation that can easily be covered by one enumerator. It has identifiable boundaries and lies wholly within an administrative or statistical area. The general cluster maps may show more than one cluster (see Figure 1). Each cluster is identified by a number (e.g., EA-05, enumeration area 05). Symbols are used to indicate certain features on the map such as roads, footpaths, rivers, and railroads (see Figure 1). Sketch maps show more details of the selected cluster (see Figure 2).

In most clusters, the boundaries follow easily recognizable land features (such as rivers, roads, railroads, swamps, etc.). However, at times, boundaries are invisible lines. The location and determination of invisible boundaries will require some ingenuity. The following guidelines are suggested to locate the selected clusters:

- 1) Identify on the map the road used to reach the cluster. When you reach what appears to be the cluster boundary, verify this by checking the location of actual terrain features and landmarks against their location on the map. Do not depend on one single feature; use as many as possible.
- 2) It is usually possible to locate unnamed roads or imaginary lines by asking local authorities or people living in the area. In most cases, these people will know where the villages or other landmarks are, and by locating these, you can usually determine where the boundary runs.

Figure 1. Example of a General Cluster Map

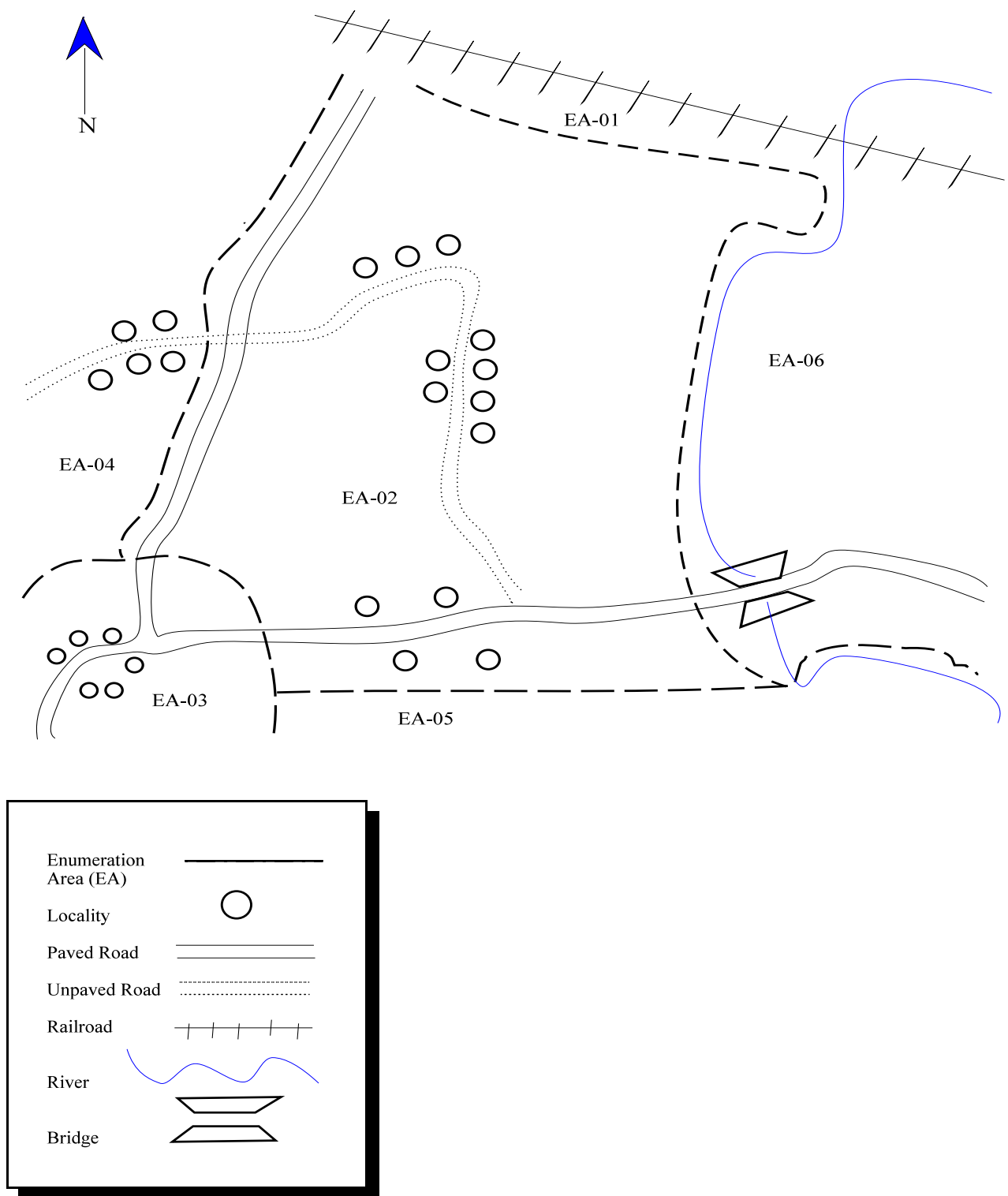
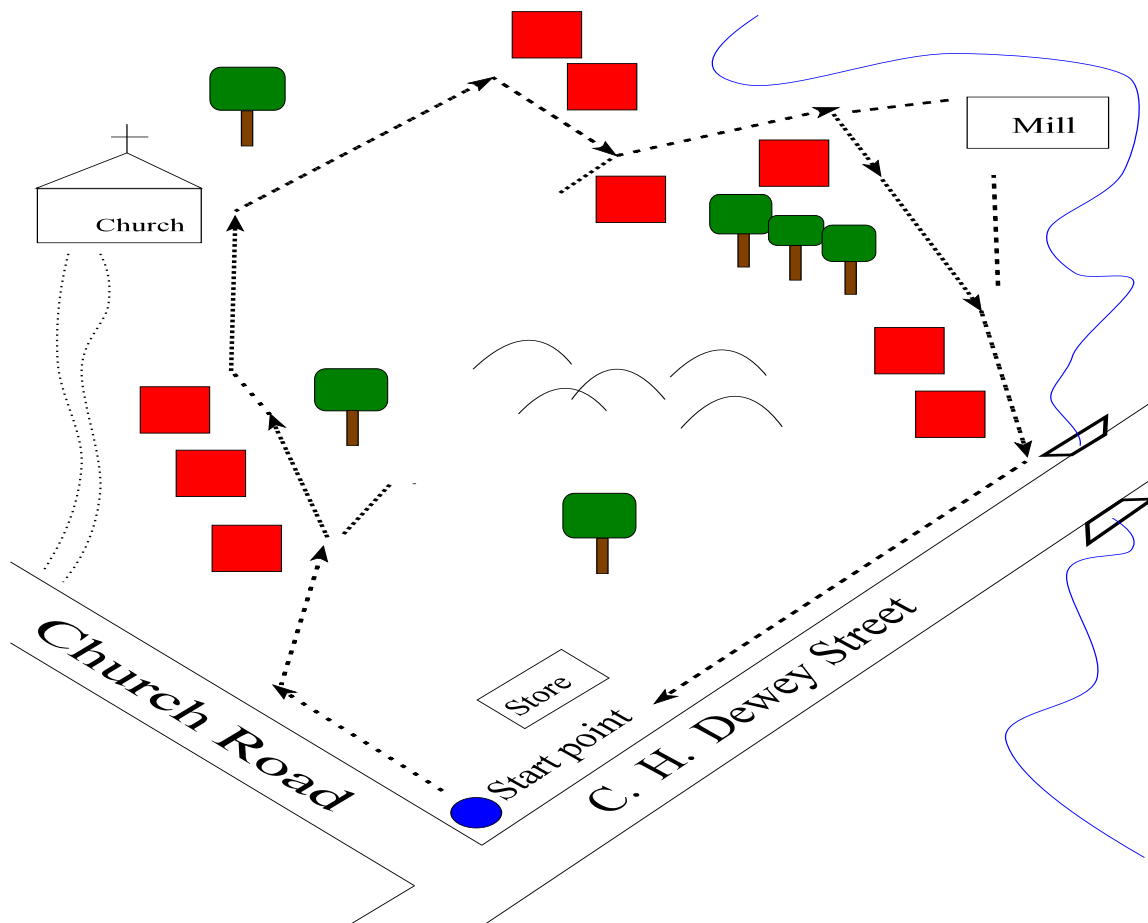

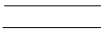
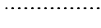





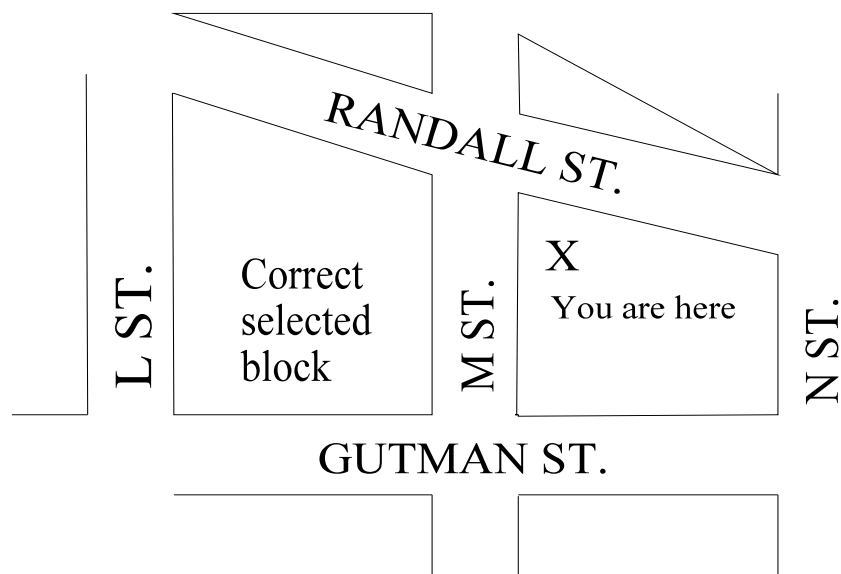
Figure 2. Example of a Sketch Map



| | |
|---------------|---|
| Dwelling Unit |  |
| Paved Road |  |
| Unpaved Road |  |
| River |  |
| Hills |  |
| Trees |  |

- 3) Although there are cases in which boundaries shown on the map no longer exist or have changed location (e.g., a road has been relocated or a river has changed course), do not jump to conclusions. If you cannot locate a cluster, go on to the next one and discuss the matter later with the [field coordinator/project director.]
- 4) In urban areas, street names will often help you locate the general area of clusters. Boundaries can be streets, alleys, streams, city limits, power cables, walls, rows of trees, etc.
- 5) Check the general shape of the cluster. This will help you determine whether you are in the right place.
- 6) Read the written description.
- 7) Locate all the cluster boundaries before you begin interviewing. For example, if the cluster is a rectangular block, the names of three boundary streets is not enough to unequivocally identify the cluster; check all four boundary streets (see Figure 3).

Figure 3. Importance of Identifying All Cluster Boundaries



F. FINDING SELECTED HOUSEHOLDS

[Section to be adapted to reflect specific characteristics of sample design.]

In most cases, the selected households can be located by referring to the household listing form or to the detailed maps of the selected clusters. Because people move around, and sometimes the listing teams may have made errors, you may have difficulty locating the residents of dwellings that were selected. Here are examples of some problems you may encounter and how to deal with them:

- 1) The household in the selected dwelling has moved away and the structure is vacant. If a household has moved out of the structure where it was listed and no one is living in the structure, you should consider the structure vacant and enter code '6' (DWELLING VACANT/ADDRESS NOT A DWELLING) on your Supervisor's/Editor's Assignment Sheet. (This sheet is described in Section IV.A.)
- 2) The household in the selected dwelling has moved away and a new one is now living in the same structure. In this case, the new household should be interviewed.
- 3) The dwelling number and name of household head do not match what is found in the field. Say, for example, that Jerry Jenkins is listed as the household head for dwelling DHS-003, but when the interviewer goes to DHS-003, she finds that the household living there is headed by Susan Smith. Consider whichever household is living in DHS-003 as the selected household, i.e., the household headed by Susan Smith should be interviewed. Check carefully, however, that you are indeed in the right cluster and have identified the selected dwelling.
- 4) The household listed in a selected dwelling is actually living in a dwelling that was not selected. If, for example, Jerry Jenkins is listed as the household head for dwelling DHS-003, but Jerry Jenkins actually lives in DHS-028, the household living in DHS-003 should be interviewed. In other words, if there is a discrepancy between the dwelling number and the name of the household head, interview whoever is living in the selected dwelling. Again, make absolutely sure that you are in the right cluster and have identified the selected dwelling.
- 5) The listing shows only one household in the dwelling, but two households are living there now. In this case, both households should be interviewed. Make a note on your Supervisor's/Editor's Assignment Sheet next to the household that was not on the listing. Assign the new household a household number, enter the number on your Supervisor's/Editor's Assignment Sheet, and instruct the interviewer to enter the new household number on the Interviewer's Assignment Sheet and on the questionnaire. However, if the listing shows two households in the dwelling unit, only one of which was selected, and you find three or more households there now, only interview the one that had been selected and ignore the others.
- 6) The head of the household has changed. In some cases, the person who is listed as the household head may have moved away or died since the listing. Interview the household that is living there now.
- 7) The house is all closed up and the neighbors say the people are away and will be back in several days or weeks. Code as a '3' (ENTIRE HOUSEHOLD ABSENT FOR EXTENDED PERIOD OF TIME) on the Supervisor's/Editor's Assignment Sheet.

- 8) The house is all closed up and the neighbors say that no one lives there; the household has moved away permanently. Enter code '6' (DWELLING VACANT OR ADDRESS NOT A DWELLING) on the Supervisor's/Editor's Assignment Sheet.
- 9) A selected dwelling is actually a shop and no one lives there. Check very carefully to see whether anyone is living there. If not, enter code '6' (DWELLING VACANT OR ADDRESS NOT A DWELLING) on the Supervisor's/Editor's Assignment Sheet.
- 10) A selected structure is not found in the cluster, and residents say that the dwelling was destroyed in a recent fire. Enter a code '7' (DWELLING DESTROYED) on the Supervisor's/Editor's Assignment Sheet.

III. ORGANIZING AND SUPERVISING FIELDWORK

A. ASSIGNING WORK TO INTERVIEWERS

The following tips may be helpful to the supervisor in assigning work:

- 1) Make daily work assignments. Be sure each interviewer has enough work to do for the day, taking into account the duration of an interview and the working conditions in the area. [The director of field operations] will advise you about how many interviews each interviewer should be able to complete in a day.
- 2) Assign more interviews than an interviewer can actually do in one day. This will be necessary because some households and/or women may not be available for interview at the time of the interviewer's visit. Sometimes there may be as many as three or four of these cases a day for a particular interviewer. Assign fewer households at the beginning of the survey to allow time for discussion of problems and for close supervision.
- 3) Distribute work fairly among the interviewers. Work should be assigned taking into account the capabilities and strengths of each interviewer but never consistently assigning more difficult workloads to certain interviewers. Drawing numbers out of a hat is a good system to ensure that team and interviewer assignments are distributed on a random basis and that interviewers are aware of this. Bad feelings among the interviewers can be avoided by using this system. If an interviewer is unlucky and consistently draws difficult assignments, the supervisor can purposely provide her some easier assignments.
- 4) Ensure that each interviewer has all the required information and materials for completing the work assignment.
- 5) Maintain complete records each day using the control sheets (see Section IV). All assignments and work completed by each interviewer and for each work area should be carefully monitored for completeness and accuracy.
- 6) Make sure that all selected households and eligible women for that cluster have been interviewed before leaving an area. See Section C for details on how to handle pending interviews.
- 7) Finally, it is the responsibility of the supervisor to make sure that the interviewers fully understand the instructions given to them and that they adhere to the work schedule. The work schedule is prepared in advance by the central office, and adherence to it is crucial to avoid overruns in the total amount of time and money allocated for the fieldwork. Supervisors should also monitor the work of each interviewer to assess whether she is performing according to the standards set by the central office.

B. REDUCING NONRESPONSE

One of the most serious problems in a sample survey of this type is nonresponse, that is, failure to obtain information for selected households or failure to interview eligible women. A serious bias could result if the level of nonresponse is high. One of the most important duties of the supervisor and editor is to try to minimize this problem and to obtain the most complete information possible. In many cases, interviewers

will need to make return visits to households in the evening or on the weekends to reduce nonresponse. It is a time-consuming task and requires strict monitoring by means of the control sheets.

Nonresponse may be classified into three basic types:

Type 1: the interviewer is unable to locate the selected household

Type 2: the interviewer is unable to locate the woman eligible for the individual interview

Type 3: the respondent refuses to be interviewed.

Various ways of dealing with these types of nonresponse are discussed below.

Type 1 - The interviewer is unable to locate the selected household

- a) *Occupied structure inaccessible.* There may be some occupied structures for which no interviews can be made because of impassable roads, etc. The interviewer should be instructed to hold the questionnaire until later. She should make another attempt to reach the dwelling at a later date when the situation may have changed. The supervisor should immediately inform the director of field operations of any difficulty in gaining access to a whole cluster or a sizable number of structures within the same cluster.
- b) *Structure not found.* The supervisor should make sure the interviewer has tried several times to locate the structure using the household listing form, maps, etc. If she is still unsuccessful, the supervisor or field editor should attempt to locate the structure and ask neighbors whether they know anything about the structure or the household members. Again, if this problem occurs frequently, it should be reported to the director of field operations. Although no interview has taken place, the cover sheet of a Household Questionnaire should be filled out and code '8' (DWELLING NOT FOUND) filled in for the result code.
- c) *Structure nonresidential, vacant, or demolished.* If the interviewer indicates that a structure is not a dwelling unit or that it is vacant or demolished, the supervisor or editor should verify that this is the case. If the interviewer is correct, there is no need for further callbacks (return visits). Although no interview has taken place, the cover sheet of a Household Questionnaire should be filled out.

Type 2 - The interviewer is unable to locate the woman eligible for the individual interview

- a) *No one home at time of call.* The interviewer should make every effort to contact neighbors to find out when the members of the household will be at home or where they might be contacted. At least three visits should be made to locate the household members. Sometimes it may be necessary to call at mealtime, in the early morning, in the evening, or on the weekend. However, the interviewer should not make "hit or miss" calls just to fill the quota of three visits. Under no circumstances is it acceptable to make all three visits on the same day.
- b) *Respondent temporarily absent.* The respondent may not be at home or may be unable to complete the interview at the time of the first call. The interviewer should find out from other household members or neighbors when the respondent can best be contacted, and a return visit should be made then. If the respondent is still not at home at the time of the second visit, another time should be set for a return visit. At least three attempts should be made to locate the respondent. If the interviewer is not able to complete the entire interview during the initial visit, the procedure for callbacks should be followed.

Type 3 - The respondent refuses to be interviewed

The number of refusals reported by each interviewer should be closely monitored. If an interviewer reports an unusually high number of refusals, it may indicate that she gives up too easily or explains the survey inadequately. If this appears to be the case, the supervisor or editor should observe the interviewer promptly. Suggestions for handling potential refusals include the following:

- a) *Approach respondent from her point of view.* Refusals may stem from misconceptions about the survey or other prejudices. The interviewer must consider the respondent's point of view, adapt to it, and reassure her. If there is a linguistic or ethnic barrier between the respondent and the interviewer, the supervisor should, if possible, send a different interviewer to complete the questionnaire.
- b) *Postpone interview to another day.* If the interviewer senses that she has arrived at an inconvenient or awkward time, she should try to leave before the respondent gives a final "no"; she can then return another day when circumstances are more likely to result in a successful interview.
- c) *Have field editor carry out the interview.* The field editor's knowledge, skill, and maturity may enable her to complete a difficult interview when the assigned interviewer has been unable to do so.

C. HANDLING PENDING INTERVIEWS

When information has not been collected from a selected household or from an eligible respondent and the return visits have not been completed, the interview is considered "pending." All materials pertaining to this interview should remain with the interviewer until she has completed the pending interview. Supervisors and field editors should keep track of all assignments on the Supervisor's/Editor's Assignment Sheet (see Section IV.A).

Completing callbacks for pending interviews is time consuming and should be carefully planned. If a few interviews remain pending as interviewing in a cluster nears completion, one or two interviewers should be assigned to remain in the area and complete the interviews while the rest of the team proceeds to the next assignment area. In this way, the whole team is not kept waiting for one or two interviewers to finish. Clear instructions should be left with the interviewers as to where and when to rejoin the team and what method of transportation should be used.

D. MAINTAINING MOTIVATION AND MORALE

The supervisor and editor play a vital role in creating and maintaining motivation and morale among the interviewers—two elements that are essential to good-quality work. To achieve this, it is necessary to make sure that interviewers—

- Understand clearly what is expected of them
- Are properly guided and supervised in their work
- Receive recognition for good work
- Are stimulated to improve their work
- Work in tranquil and secure conditions.

In working with the interviewers it may be useful to adhere to the following principles:

- 1) Rather than giving direct orders, try to gain voluntary compliance before demanding it.

- 2) Without losing a sense of authority, try to involve the interviewers in decisionmaking, and at the same time, see to it that the decision remains firm.
- 3) When pointing out an error, do it with tact, in a friendly manner, and in private. Listen to the interviewer's explanation, show her that you are trying to help her, and examine the causes of the problem together.
- 4) When interviewers voice complaints, listen with patience and try to resolve them.
- 5) Try to foster team spirit and group work.
- 6) Under no circumstances show preference for one or another of the interviewers.
- 7) Try to develop a friendly and informal atmosphere.

Finally, remember that encouraging words, instructions, and constructive criticism are not worth anything unless the supervisor and editor set good examples. It is important to *demonstrate* punctuality, enthusiasm, and dedication in order to demand the same of other team members. Never give the impression that you are working less than other members of the team, or that you are enjoying special privileges; this may produce a lack of faith in the project and cause general discontent. An ill-prepared supervisor or editor will not be able to demand high-quality work from interviewers and will lose credibility and authority. Interviewer morale and motivation depend on your morale and motivation.

IV. MAINTAINING FIELDWORK CONTROL SHEETS

Control of fieldwork within sample clusters is maintained by keeping control sheets for interviewer assignments. Three forms are used to maintain control of questionnaires and measure progress:

- 1) The Supervisor's/Editor's Assignment Sheet
- 2) The Interviewer's Assignment Sheet
- 3) The Interviewer's Progress Sheet

A. SUPERVISOR'S/EDITOR'S ASSIGNMENT SHEET

One Supervisor's/Editor's Assignment Sheet should be completed for each cluster by the supervisor and editor and returned to the head office with the questionnaires from that cluster. An example of the Supervisor's/Editor's Assignment Sheet is shown in Annex 1.

The first step in completing the Supervisor's/Editor's Assignment Sheet is to copy the cluster identification information (cluster number and name of the locality) from the household listing form or the map. The cluster number is a [three]-digit number and will be written on the top of each page of the household listing.

The next step is to record the information for all selected households from the household listing forms or the maps. They should be written on the Supervisor's/Editor's Assignment Sheet **in the same order** in which they are written on the household listing forms. When the households are written in a different order, it causes unnecessary confusion during the data processing operation, especially since the questionnaires will be put in order by household number. The director of field operations will provide the supervisor with the appropriate forms or maps for each cluster the team is assigned.

Several pages of the Supervisor's/Editor's Assignment Sheet will usually be needed to list all of the selected households in a cluster. The cluster number and name of locality should be filled in on all of the pages, and they should be numbered sequentially in the space provided at the top of the sheet (e.g., page 1 of 5, p. 2 of 5, etc.). If an additional sheet is needed, either because additional households were found during the interviewing or because a household has more than three eligible women, the supervisor should staple that sheet to the others for that cluster and correct the total number of sheets reported for the cluster.

Using the guidelines in Section III, the supervisor should assign each interviewer a number of households to interview. When making household interview assignments, Columns (1) through (4) of the Supervisor's/Editor's Assignment Sheet should be completed.

The interviewer is then responsible for 1) interviewing the assigned households, 2) determining who in the household is eligible for interview with the Women's Questionnaire, and 3) interviewing all the eligible women in the household.

At the end of each day, the interviewers will return the completed questionnaires to the field editor or supervisor for checking.

First, review the Household and Women's [and Men's] Questionnaires to check that—

- 1) Eligible women [and men] have been correctly identified on the Household Questionnaire

- 2) Each eligible woman [and man] has a Women's [or Men's] Questionnaire, even if the interview was not completed
- 3) The identification information on the cover pages of the Household and Women's [and Men's] Questionnaires is correct.

Second, copy the information from the questionnaires about the results of the interview into Columns (5) through (10) of the Supervisor's/Editor's Assignment Sheet. Record the final result of the household interview in Column (5), the date the Household Questionnaire was completed in Column (6), and the number of eligible women in Column (7). The line number of each eligible woman is listed in Column (8), the final result of the individual interviews in Column (9), and the date the Women's Questionnaire was returned to the supervisor or field editor in Column (10). [Revise if Men's Questionnaire is used.]

If there are more eligible women in a household than there is space on the Assignment Sheet, the results for that household should be entered on the final page of the Supervisor's/Editor's Assignment Sheet. Put a line through the information for that household where it was originally listed and put a note "SEE p. 5." On page 5, take the space for two households so that there is room to list up to six eligible women.

Remarks and comments about the interview assignment, results, or interviews may be recorded in Column (11). For example, reassignment of a pending interview or a change in the name of a household head may be recorded here. Also note here any irregularities observed during spotchecks or reinterviews.

Check to be sure that you have listed all the households on the Supervisor's/Editor's Assignment Sheet that were selected on the household listing form or map for that cluster. To ensure this, you are required to fill in the two boxes at the bottom of the Supervisor's/Editor's Assignment Sheet marked "Number of households selected" and "Number of Household Questionnaires." There can never be fewer Household Questionnaires than selected households or dwellings, but there can be more.

Always start a new cluster on a separate Supervisor's/Editor's Assignment Sheet. Be sure to write neatly since these forms will be used for control purposes in the central office.

B. INTERVIEWER'S ASSIGNMENT SHEET

Each interviewer will fill out an Interviewer's Assignment Sheet for each cluster (it may be necessary to use more than one sheet per cluster). The Interviewer's Assignment Sheet is similar to the Supervisor's/Editor's Assignment Sheet and helps each interviewer keep track of the households assigned to her. The supervisor and editor should review the Interviewer's Assignment Sheets each evening and discuss the results of the interviews. The Interviewer's Assignment Sheet is described in detail in the Interviewer's Manual.

C. INTERVIEWER PROGRESS SHEET

The supervisor will keep an Interviewer Progress Sheet (see Annex 2) on each interviewer. The supervisor will update the Progress Sheet at the end of work in each cluster. The supervisor will keep these sheets until the end of fieldwork (they will not be included in the package of questionnaires going back to the central office).

The Interviewer Progress Sheet is designed to give the supervisor and editor an objective and continuous measure of the interviewer's performance. Serious discord within a team can occur when one interviewer does much less work than the others. These cases must be identified and examined in order to assess whether there is good reason for lower performance or whether the interviewer is just taking it easy and leaving her

colleagues to do most of the work. Similarly, this sheet will allow you to identify whether an interviewer is getting more nonresponses or refusals than others on the team. In such a case, spotchecking should be carried out to determine whether the nonresponses or refusals are due to poor interviewer performance. If the interviewer is at fault, the supervisor should have a serious talk with her, pointing out the problems, suggesting ways she can improve, and indicating that she must perform better. If her performance does not improve, the director of field operations must be informed. He or she will decide what further action to take.

Assign one Interviewer Progress Sheet for each interviewer. The supervisor will make entries on the sheet each time a cluster is completed. The procedure for filling in the Interviewer Progress Sheet is as follows:

Column (1): Enter each cluster number on a separate line in Column (1).

Columns (2) and (4): For each cluster, enter the number of completed Household Questionnaires (i.e., with result code '1') in Column (2) and the number of Household Questionnaires not completed (with result codes '2' through '9') in Column (4).

Columns (6) and (8): Enter the number of Women's Questionnaires completed in Column (6) and the number not completed in Column (8).

Columns (3), (5), (7), and (9): The figures recorded in these columns are cumulative for all clusters. In Column (3), you will keep a cumulative count of the numbers recorded in Column (2), and in Column (5), you will keep a cumulative count of the numbers recorded in Column (4), etc. (see example in Annex 2).

The cumulative figures make it possible to check at any time the number of interviews assigned to an interviewer and the results of her work. The supervisor and field editor can also check to see whether the workloads and the completion rates are approximately the same for all interviewers.

V. MONITORING INTERVIEWER PERFORMANCE

Controlling the quality of the data collection is the most important function of the field editor. Throughout the fieldwork, she will be responsible for observing interviews and carrying out field editing. By checking the interviewers' work regularly the field editor can ensure that the quality of the data collection remains high throughout the survey. It may be necessary to observe the interviewers more frequently at the beginning of the survey and again toward the end. In the beginning, the interviewers may make errors due to lack of experience or lack of familiarity with the questionnaire; these can be corrected with additional training as the survey progresses. Toward the end of the survey interviewers may become bored or lazy in anticipation of the end of fieldwork; lack of attention to detail may result in carelessness with the data. To maintain the quality of data, the field editor should check the performance of interviewers thoroughly at these times.

A. OBSERVING INTERVIEWS

The purpose of the observation is to evaluate and improve interviewer performance and to look for errors and misconceptions that cannot be detected through editing. It is common for a completed questionnaire to be technically free of errors but for the interviewer to have asked a number of questions inaccurately. Even if the field editor does not know the language in which the interview is being conducted, she can detect a great deal from watching how the interviewer conducts herself, how she treats the respondent, and how she fills out the questionnaire. The field editor should observe each interviewer many times throughout the course of fieldwork. The first observation should take place during interviewer training and may also be used as a screening device in the selection of interviewer candidates. Each interviewer should also be observed during the first two days of fieldwork so that any errors made consistently are caught immediately. Additional observations of each interviewer's performance should be made during the rest of the fieldwork. The field editor should observe at least one interview per day during the course of the fieldwork, with the heaviest observation at the beginning and end.

During the interview, the field editor should sit close enough to see what the interviewer is writing. This way, she can see whether the interviewer interprets the respondent correctly and follows the proper skip patterns. It is important to write notes of problem areas and points to be discussed later with the interviewer. The editor should not intervene during the course of the interview and should try to conduct herself in such a manner as not to make the interviewer or respondent nervous or uneasy. Only in cases where serious mistakes are being made by the interviewer should the editor intervene.

After each observation, the field editor and interviewer should discuss the interviewer's performance. The questionnaire should be reviewed, and the field editor should mention things that the interviewer did correctly as well as any problems or mistakes.

B. EVALUATING INTERVIEWER PERFORMANCE

The field editor should meet daily with the interviewers to discuss the quality of their work. In most cases, mistakes can be corrected and interviewing style improved by pointing out and discussing errors at regular meetings. At team meetings, the field editor should point out mistakes discovered during observation of interviews or noticed during questionnaire editing (see Chapter VI). She should discuss examples of actual mistakes, being careful not to embarrass individual interviewers. Re-reading relevant sections from the Interviewer's Manual together with the team can help resolve problems. The field editor can also encourage the interviewers to talk about any situations they encountered in the field that were not covered in training. The group should discuss whether or not the situation was handled properly and how similar situations

should be handled in the future. Team members can learn a lot from one another in these meetings and should feel free to discuss their own mistakes without fear of embarrassment.

The editor and supervisor should expect to spend considerable time evaluating and instructing interviewers at the start of fieldwork. If they feel that the quality of work is not adequate, the interviewing should stop until errors and problems have been fully resolved. In some cases, an interviewer may fail to improve and will have to be replaced. This applies particularly in the case of interviewers who have been dishonest in the recording of ages of women and/or children.

C. REINTERVIEWS

As said before, the most important function of the supervisor is to ensure that the information collected by the interviewers is accurate. A powerful tool in checking the quality of the data is to systematically spotcheck the information for particular households. This is done by conducting a short reinterview in some households and checking the results with what was collected by the interviewer. Reinterviews help reduce three types of problems that affect the accuracy of the survey data.

First, reinterviews are used to check that the interviewer actually interviewed the selected household. Sometimes interviewers either inadvertently locate the wrong household or they may deliberately interview a household that is smaller or a household in which someone is home at the time they are in that area, thus making it easier to finish their work quickly. Occasionally, an interviewer may not interview any household and just fill in a questionnaire on her own. Reinterviews are a means of detecting these problems.

Another problem that arises frequently is that some interviewers may deliberately subtract years from the age of women who are 15-19 or add years to women who are over 40 in order to place them outside the age range of eligibility for the Women's Questionnaire. Sometimes interviewers may simply omit eligible women from the household listing, especially if they are visitors in the household. In these ways, they reduce their workload. If this happens frequently, it can have a substantial impact on the quality of the data.

Similarly, interviewers may deliberately subtract a year or two from the date of birth of a child in order to avoid having to ask all of the questions in Section 4 for that child. A shrewd interviewer may also change the age of the child on the Household Questionnaire to avoid suspicion. Or interviewers may omit listing a child altogether.

To reduce the occurrence of such problems, supervisors will be responsible for conducting one reinterview in each cluster. [In some surveys, it will be more appropriate for the field editor to carry out this task.] The supervisor should focus the reinterviews on households that contain women at the borderline ages, i.e., 12-14 and 50-52 or children age 6. Also, supervisors should make sure that households from all of the team's interviewers are occasionally reinterviewed. The reinterview should, if possible, be made on the same day as the interviewer's visit so that any visitors who slept there the night before can still be contacted.

To conduct the reinterview, the supervisor should take a blank Household Questionnaire, fill in the identification information on the cover sheet with a red pen, and write clearly "REINTERVIEW" on the top of the cover page. The supervisor should then visit the selected household with only the reinterview questionnaire (i.e., without taking the original questionnaire) and interview the household, filling in Columns (2) through (7) of the Household Questionnaire only. After completing the reinterview, the supervisor should obtain the original questionnaire and compare the information. He or she should write the results of the comparison on the reinterview questionnaire. For example: "identical listings," "Person on Line 02 not in original questionnaire," "Person on Line 05 in original questionnaire not there now," "Child on Line 06 was age 07 in original questionnaire," "Eligible woman on Line 08 not in original questionnaire."

Some differences in information are to be expected, especially if a different household member is interviewed during the reinterview. However, if the supervisor discovers an eligible woman who was not identified in the original interview, he or she should call this to the interviewer's attention and send her back to interview the eligible woman. Similarly, if a child who is under five was either omitted from the original questionnaire or listed as being age five or older in the original questionnaire, the interviewer should return to gather the missing information on the original questionnaire. If such omissions or displacements occur frequently with the same interviewer, the supervisor should send the field editor to observe the interviewer and should check the interviewer's work very closely. Interviewers will be less tempted to displace or omit women or births if they know that this practice will be exposed during reinterviews.

The reinterview questionnaires should be included with the other materials sent back to the central office when fieldwork in the cluster is completed.

VI. EDITING QUESTIONNAIRES

Ensuring that questionnaires are edited for completeness, legibility, and consistency is the most important task of the field editor. *Every* questionnaire must be completely checked in the field. This is necessary because even a small error can create much bigger problems after the information has been entered into the computer and tabulations have been run. Often, small errors can be corrected just by asking the interviewer. For example, if an answer of '02 MONTHS' is inconsistent with another response, the interviewer may recall that the respondent said '2 years,' and the error can easily be corrected. In other cases, the interviewer will have to go back to the respondent to get the correct information. Timely editing permits correction of questionnaires in the field.

Since errors make the analysis of the data much more difficult, the data processing staff has prepared a computer program that will check each questionnaire and print out a list of all errors. If the errors are major ones, an entire questionnaire may be omitted from the analysis. As you are editing questionnaires in the field, it may help to try imagining how the questionnaire would look to a clerk in the office. Would he or she be able to read the responses? Are the answers consistent? Since editing is such an important task, we have prepared a set of instructions that describe the procedures for editing questionnaires.

A. GENERAL INSTRUCTIONS

- 1) As you go through the questionnaires, if a response is missing (that is, there is no answer recorded because the question was not asked) or the response is inconsistent with other information in the questionnaire and you cannot determine the correct response, put a question mark ("?) next to the item **with a red pen**. Write the page number or the question number on the front or back of the questionnaire; this way, you can quickly remember later what problems you found. When you have completed the editing, discuss with each interviewer, individually, the observations you found. Any errors that you find frequently should be discussed with the whole team.
- 2) If the problems are major, such as discrepancies in the birth history or the health sections, it will be necessary to go back to interview the respondent again. If a return visit is not possible, try to establish, with the interviewer's assistance, the correct response from other information in the questionnaire. For example, if there is no code circled to indicate a person's sex, you might be able, with the interviewer's help, to determine from the name which sex the person is.

NOTE: UNDER NO CIRCUMSTANCES SHOULD YOU MAKE UP AN ANSWER.

If it is not possible to return to the household to resolve inconsistencies or missing information, then leave the items as they are. Do not try to fill in every question or to make the questionnaire consistent.

- 3) In checking through each questionnaire, be sure that the numbers entered in boxes are readable and that the circles used by the interviewer to select the precoded numbers clearly mark only one of the choices (except in cases where more than one code is allowed).
- 4) In checking each questionnaire, make certain that the respondent was asked all questions appropriate for her (check that the interviewer followed the skip instructions). You will need to look for—
 - a) Questions for which a response is recorded when it appears there should be *no* response (in this case, cross out the response by drawing two lines through the code with your red pen)

b) Questions for which *no* response is recorded when it appears there *should* be a response (in this case, try to find the correct response as described in paragraph (2) above or leave blank).

Correct errors following the system described in the Interviewer's Manual, e.g., drawing two lines through the existing code and circling or writing the new code.

ALWAYS USE A RED PEN TO MAKE CORRECTIONS.

- 5) Check the ranges for all variables that are not precoded (e.g., a woman cannot have 24 sons living with her) and carry out the other consistency checks that are listed. Mark any inconsistencies with a red pen.
- 6) The field editor should advise the team supervisor about questionnaires that have been returned to interviewers for further work. All questionnaires for a given cluster that have been edited and corrected should be arranged in numerical order according to the household or dwelling number (see Section E: Checking the Entire Cluster).

B. EDITING THE HOUSEHOLD QUESTIONNAIRE

In editing the Household Questionnaire, be sure to—

- 1) Check that the household identification information has been completed correctly.
- 2) Code the information on the cover page of the Household Questionnaire if the interviewer has not done so. If the final result code is not '1,' check to see that the remaining pages are blank. If the final result code is '1,' continue to check the rest of the Household Questionnaire.
- 3) Check that Columns (3) through (7) have been filled for each person listed. There should be no blanks in these columns.
- 4) Check that the line numbers of all [ever-married] women age 15-49 have been circled in Column (8). If you find errors regarding eligible women in the household, check with the interviewer to make certain the correct number of interviews have been conducted in that household.
- 5) Check that the line numbers of all children under age six (that is, ages '00'-'05') have been circled in Column (9).
- 6) Check that there is information in Columns (10) through (13) for each person under 15 years of age. Check that the line numbers recorded in Column (11) refer to women who are old enough to be the child's mother and that the line numbers in Column (13) refer to men who are old enough to be the child's father. If the answer in Column (10) is 'NO' or 'DON'T KNOW,' Column (11) should be blank. If the answer in Column (10) is 'YES,' Column (11) must contain a valid line number or the code '00' indicating that the mother does not live in the household. The same rules hold for Columns (12) and (13).
- 7) Columns (14) through (20) should be blank for children under five years of age. Column (14) must not be blank for persons five years or older.

- 8) If the answer in Column (14) is 'NO,' then Columns (15) through (20) should be blank. If the answer in Column (14) is 'YES,' then there must be information in Column (15) and if the person is under 25 years of age, also in Column (16).
- 9) Check that the interviewer followed the correct skip pattern in Columns (16) through (20), that is, if the answer in Column (16) is 'YES,' then there must be information in Columns (18) and (19), and if the answer in Column (16) is 'NO,' then there must be something circled in Column (17), etc.
- 10) Check that the level of education is more or less appropriate for the age of the child, keeping in mind that some children may be very advanced or quite far behind in school for their age. Still, one would not expect, say, a seven-year-old child to have attended secondary school. If the level of education appears to be grossly out of line with the child's age, make a note on the back of the questionnaire and check with the interviewer.
- 11) Check the boxes to the right of the three questions at the bottom of the listing of persons to make sure the interviewer marked these questions.
- 12) Check that the TOTAL PERSONS IN HOUSEHOLD recorded on the cover sheet is equal to the number of people listed in the Household Schedule and that TOTAL ELIGIBLE WOMEN on the cover page is equal to the number whose line numbers are circled in Column (8).
- 13) Check that answers to Questions 21-35 on household facilities have been recorded. Note that there should be a '1' or '2' circled for each of the items listed in Qs. 25, 28, and 34.
- 14) In Q. 30, check that the box marked is correct according to the information in the Household Schedule on children under age five who slept in the household the previous night.
- 15) Check Column (36) to see that all women 15-49 and all children under age six are listed and that the line numbers, names, and ages correspond to the information in Columns (1), (2), and (7). Check that the information in Columns (39) through (49) is filled in as appropriate for all women and children who were measured.
- 16) For all children measured, check that the weight and height in Columns (40) and (41) lie within the ranges specified in Annex 3. If a measure falls outside the acceptable range, the measurer should revisit the household, remeasure the child, and check that the child's age has been correctly recorded.
- 17) Check that the number of Women's Questionnaires returned with each Household Questionnaire is the same as the number of eligible women reported on the cover page. Speak with the interviewer when there is any inconsistency.

C. EDITING THE WOMEN'S QUESTIONNAIRE

[Note: The instructions presented here are based on the Model "A" Questionnaire. To revise for use with the Model "B" Questionnaire, remove the starred (*) items. Also, the instructions assume fieldwork was carried out in 2000. Adjustments must be made for surveys executed in subsequent years.]

Check to see that *skip* instructions have been followed, that answers are readable, and that answers to related questions are consistent.

Cover Sheet

- 1) Check that the identification information has been completed correctly. This information must be the same as that on the cover sheet of the Household Questionnaire. Check that the line number of the woman is the same as it is in the Household Questionnaire.
- 2) Code the information on the cover sheet if the interviewer has not done so. If the final result is not '1' or '5,' check to see that the remaining pages are blank. If the final result is either '1' or '5,' continue to check the remaining pages of the Women's Questionnaire.

Section 1. Respondent's Background

- 1) Check that the informed consent statement has been signed by the interviewer.
- 2) TIME STARTED INTERVIEW. Check that the hour in Q. 101 is less than 24 and the minutes less than 60.
- 3) DATE OF BIRTH. Check that the answer to Q. 105 (month of birth) is either between '01' and '12' or '98,' that year of birth is not less than ['1950'] and not greater than ['1985'] or is '9998,' and that Q. 106 is between '15' and '49.' Question 106 must have an answer even if it is only the interviewer's best estimate. It can never be left blank. Also check that the date of birth and age are consistent. If these responses are inconsistent, discuss this with the interviewer.

If at all possible, an effort should be made to revisit the respondent to resolve inconsistencies with age since it is one of the most important pieces of information collected in the questionnaire. If a revisit cannot be scheduled, it may be necessary to look at other information in the Household and Women's Questionnaires in an effort to resolve the inconsistency. Items that should be considered include the following:

- Age recorded for respondent in Household Questionnaire
 - Number of live births
 - Date of birth of respondent's first child
 - Date or age at first marriage.
- 4) AGE. If the respondent's age is either less than '15' or more than '49,' write "NOT ELIGIBLE" on the cover of the Women's Questionnaire. This questionnaire should not be processed. Also check, and correct if necessary, the age of this woman in the Household Questionnaire.
 - 5) EDUCATION. Make sure that the response given to Q. 109 is consistent with the level of education given in Q. 108.

Section 2. Reproduction

- 1) CHILDREN EVER BORN. Check that Q. 208 is equal to the sum of the six values in Qs. 203, 205, and 207. Q. 208 must have a code filled in. If the respondent has never had any births, the interviewer should have recorded '00' in Q. 208. Make sure the interviewer has marked the appropriate box in Q. 210.
- 2) TOTAL NUMBER OF BIRTHS. Check that the total number of births listed in the birth history is equal to the number in Q. 208. If fewer births are recorded in the birth history than in Qs. 201-208,

you will have to send the interviewer back to the respondent to complete the information. If more births are listed in the history, correct Qs. 201-208 to be consistent with the number of births recorded in the history.

- 3) LIVING AND DEAD SONS AND DAUGHTERS. Check that the numbers of living sons, living daughters, dead sons, and dead daughters recorded in Qs. 203, 205, and 207 are equal to the respective numbers recorded in the birth history.
- 4) AGE AT DEATH. Check the consistency of Qs. 215 and 220. A child cannot have died at an older age than he would be if he had lived. For example, a child born two years ago could not have died at age three. Also, make sure that the age at death is completed in DAYS or MONTHS or YEARS and not, for example, in DAYS and MONTHS. **A response of '01 YEAR' in Q. 220 is unacceptable.** If you find such a case, the interviewer should be sent back to the respondent to determine at what age in MONTHS the child died. We need to know whether the baby died before or after his or her first birthday.
- 5) AGE OF LIVING CHILDREN. Check the consistency of Qs. 215 and 217 for each living child listed on the birth history. Either the Arithmetic or Chart Method described in the Interviewer's Manual may be used to perform this check.
- 6) BIRTH ORDER. Using the information in Q. 215, check that births are listed in order. If you find a birth out of order, correct it by drawing arrows and changing the order numbers printed on the left of Q. 212.
- 7) BIRTH INTERVALS. After checking the birth order, check that the interval between births is at least nine months unless the two births being checked are twins. If the interval between two single births is less than nine months, the interviewer (or field editor) should return to check the information in the birth history with the respondent.
- 8) CHECKING LINE NUMBER. For all women who are usual members of the household (Column (5) in the Household Questionnaire for that woman is '1') and who report in the birth history that they have children who live with them (Q. 218 is '1'), check that the line number in Q. 219 refers to the same person in the Household Schedule by comparing the name, age, and sex. For children under age six, check that they are listed in Columns (36) through (39) of the Household Questionnaire. Check that the line number in Column (36) is the same as in Q. 219 and that the name and age of the child are the same in both questionnaires.

If you find that a child is listed in the Women's Questionnaire as being under age six and living with the mother who is a usual member of the household and the child is not listed in Columns (36) through (39), check Columns (1) through (9) of the Household Schedule to try to resolve the discrepancy. It might be that in the Household Schedule, the child is listed as being age six or older, while in the Women's Questionnaire, the child is under age six. In this case, you will need to find out which age is correct, probably by returning to the household. If the child is under age six, you will need to change the child's age in Column (7) of the Household Schedule to make the child eligible for the height and weight and hemoglobin testing; circle that child's line number in Column (9) and fill in the information on height and weight and anemia testing in Columns (36) through (43) for that child.

- 9) AGE AT FIRST BIRTH. After checking the birth order, use the respondent's age (Q. 106) and the age of her first-born child to check that she was at least 12 years of age at her first birth. Inconsistencies between the age of the respondent and the date of the first birth generally arise because—
- a) The child is not the respondent's own (biological) child
 - b) The respondent's birth date or age (Qs. 105 and 106) is incorrect
 - c) The birth date and/or age of the first child (Qs. 215 and 217) is incorrect.

A callback to the respondent should be made, if at all possible, to determine the source of error.

- 10) LAST MENSTRUAL PERIOD. Check that Q. 237 has been filled in correctly. If a length of time is given, only one set of boxes (DAYS or WEEKS or MONTHS or YEARS) should be filled in.
- 11) CALENDAR, COLUMN (1). Now turn to the calendar at the back of the questionnaire. Make sure that each live birth (if any) from the birth history that occurred since [1995] has been recorded with a 'B' in the appropriate month and year of birth, preceded by 'P's for each month of pregnancy. To the left of each 'B,' the name of the child should have been recorded.

Also verify that any pregnancy losses recorded in the sequence of Qs. 229-236 are recorded as 'T' in their month of occurrence, preceded by the appropriate number of months of 'P's. Check that for currently pregnant respondents, the number of 'P's entered in the calendar, starting with the month of interview and going back in time, is equal to the number of months she is pregnant in Q. 227. Finally, check that the information at the bottom of the calendar on the last nonlive-birth pregnancy prior to [1995] has been recorded correctly.

Section 3. Contraception

- 1) HEARD OF OR USED METHODS. Wherever a code '1' in Q. 301 has been circled for a specific method, Q. 302 should always be completed for that method.
- 2) CURRENTLY USING. Check that if the respondent is currently using a family planning method (Q. 311 has a code circled), Q. 302 for that method has been coded '1.'
- 3) SKIPS AND FILTERS. Check through the remaining pages of Section 3 to ensure that all skip instructions were followed correctly, that the filters have been correctly marked, and that the appropriate questions have been answered.
- *4) CALENDAR, COLUMN (1). Now turn to the calendar at the back of the questionnaire. If the woman has never used contraception (Q. 304 is 'NO'), a '0' should have been entered in each blank month of Column (1) up to the month of interview. If the woman (or her partner) has been sterilized, code '1' (or '2') should have been entered in the month and year of the operation (Q. 316) and in the remaining months to interview. If the woman is a current user of some other method, the code for that method should be entered in the month and year she started using the method continuously (Q. 316) and in the remaining months up to the month of interview.
- *5) CALENDAR, COLUMNS (1) AND (2). Now, focusing attention only on the calendar, there should be no blank squares in Column (1), except those later than the month of interview. If there are blanks, and the reason for the error is not obvious, a callback to the respondent may be required.

Compare Columns (1) and (2). Each time a method was started in Column (1), there should be a code in Column (2), in the first month of use, indicating the place the method was obtained.

Compare Columns (1) and (3). Each time a method has been discontinued in Column (1), there should be a code in Column (3) in the last month of use, indicating the reason for discontinuation.

Section 4A. Pregnancy and Breastfeeding

- 1) **IDENTIFICATION.** Check the information in the birth history to make certain that **each birth since January [1995] has been entered in Qs. 403 and 404 with the most recent birth in the left-hand column.** Check that the line number, name, and survival status are identical to those in the birth history. The line number should be the same as in Q. 212, not the line number from the Household Schedule. Questions in Section 4A should be asked for living children and for children who have died. If the respondent has had no births since January [1995], Section 4A will not be asked, but check that the interviewer properly skipped to Q. 487.
- *2) **CALENDAR, COLUMN (3) AND Q. 405.** Compare Q. 405 with Column (3) of the calendar. There should be a minimal consistency between the reason for discontinuing contraception and the desired timing of a pregnancy. For example, if the respondent stopped using because she wanted to become pregnant, it is reasonable to conclude that the resulting pregnancy was wanted 'then.' Similarly, if she became pregnant while using, then she undoubtedly did not want the pregnancy 'then.' If you come across inconsistencies, point these out to the interviewer, and try to resolve them without a callback to the respondent. Impress upon the interviewer the logical link between these two items of information.
- 3) **SKIPS AND FILTERS.** Check the skip pattern throughout the section; make sure that all filters have been correctly marked and that the proper questions were asked.
- 4) **Q. 412.** Check to make sure that a code was circled for each item.

Section 4B. Immunization and Health

- 1) **IDENTIFICATION.** Check that the line numbers and names recorded in Qs. 455 and 456 are the same as in Qs. 403 and 404. If a child has died, Qs. 455 and 456 should be filled in for that child, but Qs. 457-483 should not be asked for that child.
- 2) **VACCINATION DATES.** For each child with an immunization record that was seen by the interviewer ('YES, SEEN' in Q. 458), check that the date of each vaccination is consistent with the child's date of birth. For example, a vaccination cannot be prior to the date of birth. Check also that the dates for the four polio and the three DPT vaccinations are in chronological order.
- 3) **SKIPS AND FILTERS.** Check that filters were correctly marked and skip instructions followed.

Section 5. Marriage

- 1) **HUSBAND'S LINE NUMBER.** If the husband lives with the respondent and the woman usually lives in that household, check that the name and line number in Q. 506 are consistent with what is listed in the Household Schedule and that the person is a male age 15 or older.

- 2) YEAR OR AGE AT MARRIAGE. Check that the year in Q. 511 is in the range of ['1960'] through ['2000'] or '9998.' If a year is reported in Q. 511, then no age should be reported in Q. 512. If Q. 511 is '9998,' then there must be an age at marriage reported in Q. 512. Check that the age in Q. 512 is in the range of '10' through '49.'
- 3) LAST INTERCOURSE. Make sure that only one set of boxes is filled in in Q. 515, i.e., DAYS or WEEKS or MONTHS or YEARS. If more than one category has been coded, recalculate the answer and enter it at the appropriate unit of measurement.
- 4) LENGTH OF RELATIONSHIP. Make sure that only one set of boxes is filled in in Qs. 518 and 522, i.e., DAYS or WEEKS or MONTHS or YEARS. If more than one category has been coded, recalculate the answer and enter it at the appropriate unit of measurement.
- *5) CALENDAR, COLUMN (4). Now turn back to the calendar. If the respondent has never been married, Column (4) should be filled in from the bottom up to the month of interview with code '0.' If she is currently married and in her first union, the calendar should be filled with 'X's from the date of marriage in Q. 511 (or from the bottom, if the marriage occurred prior to January [1995]) to the month of interview. In other cases, check that each month in Column (4) is filled in up to the month of interview with either a '0' or an 'X.' There can be no blanks.

Section 6. Fertility Preferences

- 1) DESIRED SPACING. Check that only one set of boxes is filled in in Q. 603, either MONTHS or YEARS.
- 2) PREFERENCE FOR BOYS OR GIRLS. Check that the sum of the number of BOYS, GIRLS, and EITHER given in Q. 615 is equal to the number in Q. 614.
- 3) Qs. 617 and 628. Check to be sure there is a code circled for each item.

Section 7. Husband's Background, Woman's Work, and Residence

- 1) EDUCATION. Make sure that the response given to Q. 705 is consistent with the level of education given in Q. 704.
- 2) OCCUPATION. Make sure that the occupation written in Q. 710 is legible and specific (e.g., 'Business' or 'Sales' is not specific enough).
- 3) SKIPS AND FILTERS. Check that filters were marked correctly and skip instructions were followed.

Section 8. HIV/AIDS and Other Sexually Transmitted Infections

- 1) SKIPS AND FILTERS. Check that filters were marked correctly and skip instructions were followed.
- 2) TIME ENDED INTERVIEW. Check the ranges for hour and minutes in Q. 820. This information should be reasonably consistent with Q. 101.

Summary of Editing Checks for the Questionnaire

1. Range and consistency of Qs. 105 and 106
2. Consistency of Qs. 108 and 109
3. Numerical consistency of Qs. 203, 205, 207, and 208
4. Consistency of birth history with Qs. 203, 205, 207, and 208
5. Numerical consistency of Qs. 215 and 217
6. Consistency of line number in Q. 219 and Household Schedule
7. Q. 220 reported in days if less than one month and in months if less than two years
8. Consistency of birth order with Q. 215
9. Birth intervals nine months or more, age at first birth 12 or older
10. Response to Q. 237 (last menstrual period) recorded correctly
11. Consistency of Calendar Column (1) with birth and pregnancy history
12. Consistency of Qs. 301 and 302
13. Consistency of Qs. 311 and 302
- * 14. Consistency of Section 3 with Columns (1) and (2) of Calendar
15. All births since January [1995] listed in Q. 403 and 404 with last birth on left
16. Consistency of line number, name, and survival in Qs. 403 and 404 with the birth history
- * 17. Consistency of Q. 405 with Column (3) of the Calendar
18. Consistency of entries in Qs. 455-456 with Qs. 403-404
19. Consistency of dates in vaccination record
20. Range of values for Qs. 511 and 512 (year and age at marriage)
21. Response to Q. 515 (date of last intercourse) recorded correctly
- * 22. Consistency of Calendar Column (4) with Q. 511
23. Response to Q. 603 (desired spacing of next birth) recorded correctly
24. Consistency of Qs. 614 and 615
25. Consistency of Qs. 704 and 705
26. Occupation (Qs. 706 and 710) legible and specific.

D. ORGANIZING QUESTIONNAIRES FOR RETURN TO THE OFFICE

- 1) Put all the Women's Questionnaires inside their respective Household Questionnaires. If there is more than one Women's Questionnaire in a household, organize them sequentially in ascending order of the line numbers of the respondents. [Put the Men's Questionnaires after the Women's Questionnaires].

- 2) Organize the Household Questionnaires in numerical order by household number within the cluster. Also, any continuation questionnaires (e.g., if there are more than 12 children in a birth history) should be inside the primary questionnaire and should have "CONTINUATION" written across the top of the cover sheet. The primary questionnaire for that set should say "SEE CONTINUATION" across the top of the cover sheet.
- 3) Check the questionnaires against the Supervisor's/Editor's Assignment Sheet to be sure that—
 - a) The correct number of Household Questionnaires are present
 - b) The household final result codes are correct
 - c) The correct number of Women's Questionnaires are present
 - d) The women's final result codes are correct.

Remember, there must be a Women's Questionnaire assigned for each eligible woman, even if the interview was not conducted. Those questionnaires will be blank except for the identification information and the result codes.

E. FORWARDING QUESTIONNAIRES TO THE HEAD OFFICE

After all the checking described above has been completed, the field editor should put all the questionnaires along with the Supervisor's/Editor's Assignment Sheet and the sketch maps for the sample point into the envelopes provided. On the outside of the envelope, she should write the cluster number, the name of the locality, and the number of Household Questionnaires for that cluster. If the questionnaires are too bulky to fit into one envelope, she should use two or more and write PACKET 1 OF 3, PACKET 2 OF 3, etc. on the outside of each envelope. The packets should be kept securely until they can be transported to the central office. It is very important that questionnaires are bundled and labeled properly and protected from dampness and dust. [Include or replace with country-specific instructions on bundling, labeling, and shipment.]

CLUSTER NUMBER 101

DHS SUPERVISOR'S/EDITOR'S ASSIGNMENT SHEET

| HOUSEHOLD INTERVIEW | | | | | | | INDIVIDUAL INTERVIEW | | | OBSERVATIONS (11) |
|-----------------------------|--|----------------------------------|--------------------------------------|---------------------|-----------------------|-----------------------------|-----------------------------------|---------------------|-----------------------------|---|
| DHS HOUSEHOLD NUMBER (1) | DHS STRUCTURE NUMBER OR ADDRESS (2) | NAME OF HEAD OF HOUSEHOLD (3) | INTERVIEWER AND DATE ASSIGNED (4) | FINAL RESULT (5) | DATE COMPLETED (6) | TOTAL ELIGIBLE WOMEN (7) | LINE NUMBER OF ELIG. WOMAN (8) | FINAL RESULT (9) | DATE RETURNED (10) | |
| 001 | 8 Lundu Street | George Banda | Priscilla 6/7/00 | 1 | 6/7/00 | 1 | 2 | 1 | 6/7/00 | |
| 002 | 6 Bancraft Street | Godfrey Mayanda | Emma 6/7/00 | 1 | 10/7/00 | 3 | 2 4 7 | 1 2 1 | 6/7/00 10/7/00 6/7/00 | Made 3 callbacks but could not find her at home |
| 003 | 10 Bancraft Street | Baba Suleiman | Emma 7/7/00 | 2 | 9/7/00 | 0 | | | | |
| 004 | 4 High Street | Bob Anker | Emma 7/7/00 | 1 | 7/7/00 | 1 | 2 | 1 | 7/7/00 | |
| 005 | 20 Lundu Street | Mary Tembo | Priscilla 6/7/00 | 1 | 6/7/00 | 2 | 1 3 | 1 1 | 6/7/00 7/7/00 | |
| 006 | 10 High Street | Eugene Kariba | Esther 6/7/00 | 1 | 7/7/00 | 1 | 2 | 1 | 7/7/00 | Refused at first |

| | | | | | | | |
|--|--|---------------|--------------------|--------------------|--|--|--|
| CODES FOR COLUMN 5 | | | | CODES FOR COLUMN 9 | | | |
| 1 COMPLETED | 6 DWELLING VACANT/ADDRESS NOT A DWELLING | 1 COMPLETED | 5 PARTLY COMPLETED | | | | |
| 2 NO HH MEMBER AT HOME/NO COMPETENT RESPONDENT | 7 DWELLING DESTROYED | 2 NOT AT HOME | 6 INCAPACITATED | | | | |
| 3 ENTIRE HH ABSENT FOR EXTENDED PERIOD | 8 DWELLING NOT FOUND | 3 POSTPONED | 7 OTHER | | | | |
| 4 POSTPONED | 9 OTHER | 4 REFUSED | | | | | |
| 5 REFUSED | | | | | | | |

SUPERVISOR'S NAME Carol Uchi10

NUMBER OF HOUSEHOLDS SELECTED.....

43

NUMBER OF HOUSEHOLD QUESTIONNAIRES

43

INTERVIEWER NAME

[illegible][illegible]

ANNEX 3 HEIGHT AND WEIGHT CHARTS

LENGTH (cm)

| MALES | | | FEMALES | | |
|---------|---------|---------------|---------|---------|--|
| Minimum | Maximum | Age in months | Minimum | Maximum | |
| 36.0 | 74.0 | 00 - 02 | 36.0 | 72.0 | |
| 45.0 | 83.0 | 03 - 05 | 44.0 | 80.0 | |
| 51.0 | 87.0 | 06 - 08 | 50.0 | 86.0 | |
| 56.0 | 91.0 | 09 - 11 | 54.0 | 90.0 | |
| 59.0 | 96.0 | 12 - 14 | 57.0 | 95.0 | |
| 62.0 | 100.0 | 15 - 17 | 60.0 | 99.0 | |
| 64.0 | 104.0 | 18 - 20 | 62.0 | 102.0 | |
| 65.0 | 107.0 | 21 - 23 | 64.0 | 106.0 | |
| 67.0 | 108.0 | 24 - 26 | 66.0 | 107.0 | |
| 68.0 | 112.0 | 27 - 29 | 68.0 | 111.0 | |
| 70.0 | 115.0 | 30 - 32 | 69.0 | 114.0 | |
| 71.0 | 118.0 | 33 - 35 | 71.0 | 117.0 | |
| 73.0 | 121.0 | 36 - 38 | 72.0 | 120.0 | |
| 74.0 | 124.0 | 39 - 41 | 74.0 | 122.0 | |
| 75.0 | 127.0 | 42 - 44 | 75.0 | 124.0 | |
| 77.0 | 129.0 | 45 - 47 | 77.0 | 126.0 | |
| 78.0 | 132.0 | 48 - 50 | 78.0 | 129.0 | |
| 79.0 | 134.0 | 51 - 53 | 79.0 | 131.0 | |
| 80.0 | 136.0 | 54 - 56 | 81.0 | 133.0 | |
| 82.0 | 139.0 | 57 - 60 | 81.0 | 136.0 | |

WEIGHT (kg)

| MALES | | | FEMALES | | |
|---------|---------|---------------|---------|---------|--|
| Minimum | Maximum | Age in months | Minimum | Maximum | |
| 0.5 | 10.0 | 00 - 02 | 0.5 | 9.0 | |
| 1.0 | 13.0 | 03 - 05 | 1.0 | 12.0 | |
| 2.0 | 15.0 | 06 - 08 | 2.0 | 14.0 | |
| 3.0 | 16.5 | 09 - 11 | 2.5 | 15.5 | |
| 4.0 | 17.5 | 12 - 14 | 3.0 | 16.5 | |
| 4.0 | 18.5 | 15 - 17 | 3.5 | 17.5 | |
| 4.0 | 19.5 | 18 - 20 | 3.5 | 18.5 | |
| 4.5 | 20.5 | 21 - 23 | 4.0 | 19.5 | |
| 4.5 | 23.0 | 24 - 26 | 4.5 | 21.5 | |
| 5.0 | 24.0 | 27 - 29 | 5.0 | 23.0 | |
| 5.0 | 24.5 | 30 - 32 | 5.0 | 24.5 | |
| 5.0 | 25.5 | 33 - 35 | 5.0 | 25.5 | |
| 5.0 | 26.0 | 36 - 38 | 5.0 | 27.0 | |
| 5.0 | 27.0 | 39 - 41 | 5.0 | 28.0 | |
| 5.0 | 28.0 | 42 - 44 | 5.5 | 29.0 | |
| 5.0 | 29.0 | 45 - 47 | 5.5 | 30.0 | |
| 5.0 | 30.0 | 48 - 50 | 5.5 | 31.0 | |
| 5.0 | 31.0 | 51 - 53 | 5.5 | 32.0 | |
| 5.5 | 32.0 | 54 - 56 | 6.0 | 33.0 | |
| 5.5 | 33.0 | 57 - 60 | 6.0 | 34.5 | |